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Evolutionary Acquisition and Spiral Development

ESC/AE
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Evolutionary Acquisition Definitions

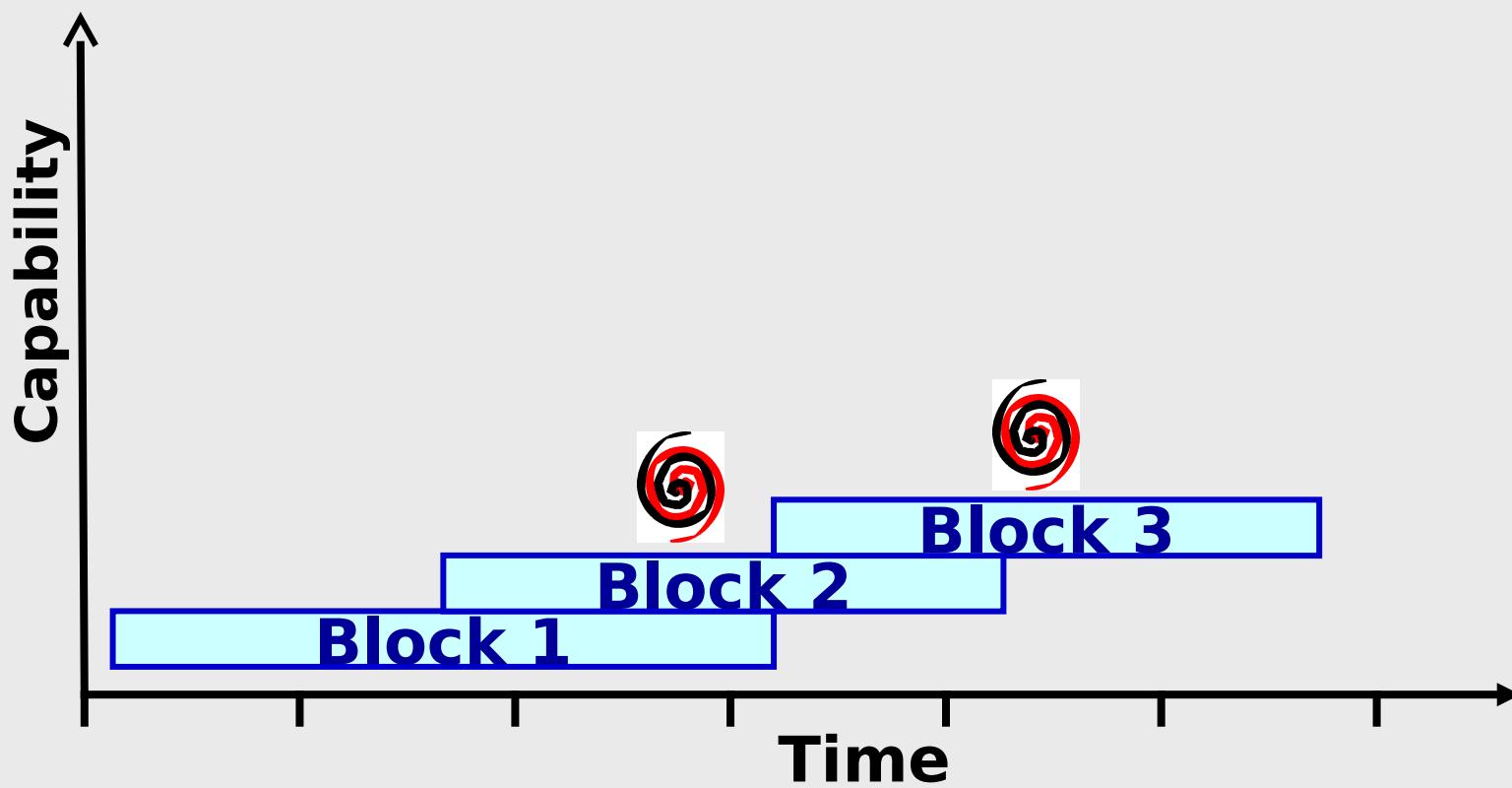
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- ♦ Evolutionary Acquisition - acquisition strategy used to develop and field a capability which meets increasing requirements in successive increments.
- ♦ Increment - distinct set of planned activities supporting the goal of delivering an operational capability to the user.
- ♦ Block - the method for delivering a core capability with increasing increments of capability



EA Weapon System Model

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Spiral Development

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A cyclic approach for incrementally increasing a system's definition and functionality while decreasing risk





Spiral Development

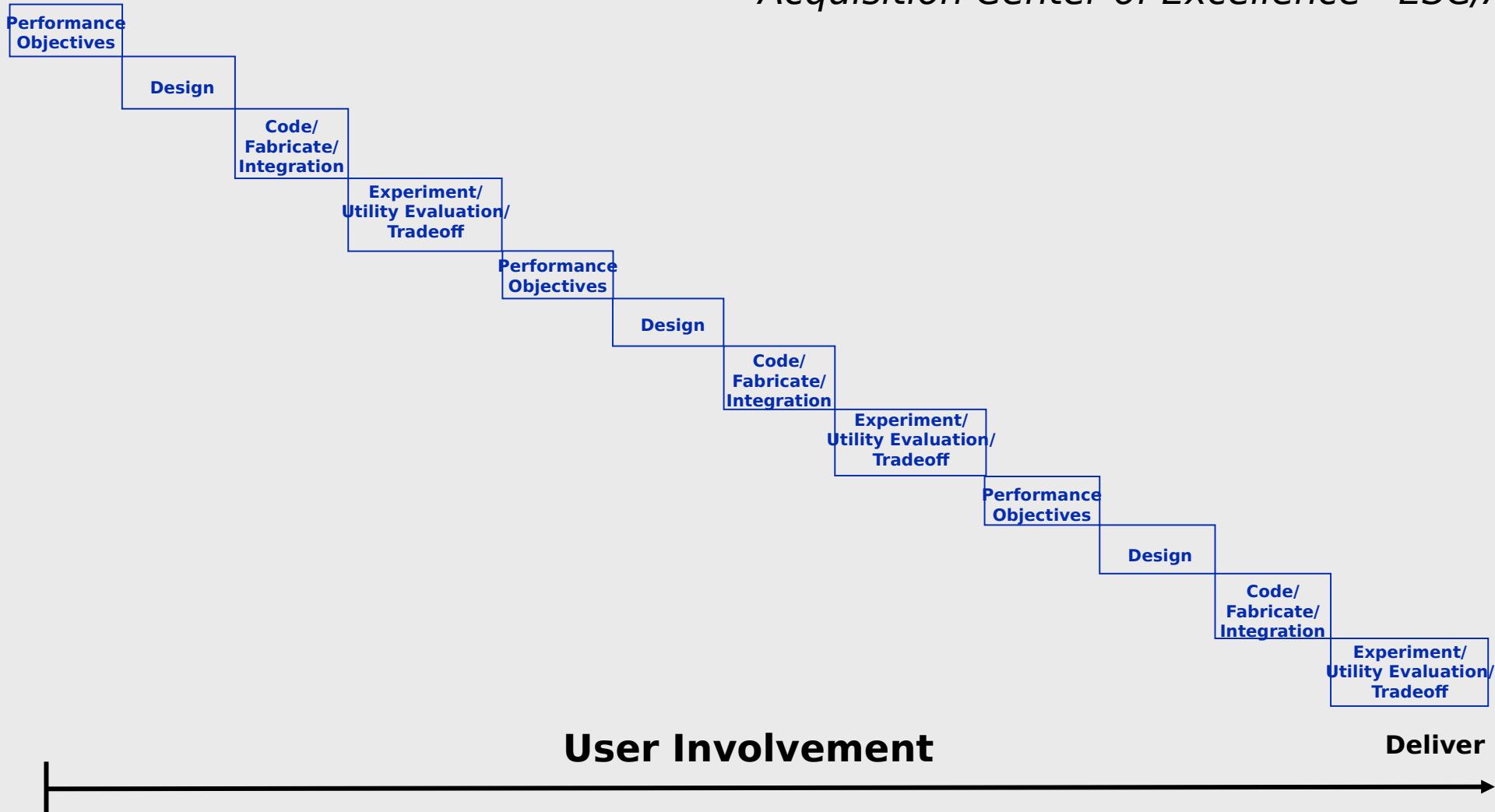
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- Characteristics of a spiral development process
 - Technological advances are used in parallel with concept refinement
 - Continuous user involvement and feedback
 - A set of sub-processes such as requirements development and decision processes



Spiral Development

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Making Spiral Development Work

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- Continuous operational user involvement to assure the utility of the system as requirements evolve and to make the decisions to field
- Testing is an integral and continuous part of spiral development
- Spiral cycles are iterated throughout the life of a system to provide opportunities to respond to user feedback and to introduce new operational concepts and new technology



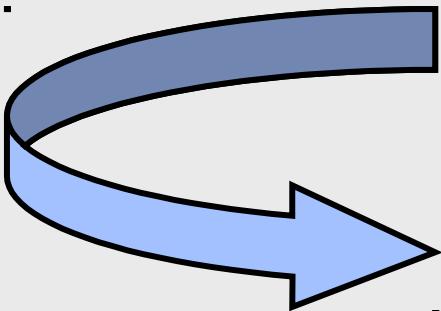
Evolutionary Acquisition Using Spiral Development

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An Evolutionary
Acquisition
Strategy

+

A Spiral
Development
Process



Deliver the product
with the most
capability in the
shortest timeframe